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I claim:

1. A method to preselect the sex of mammalian offspring comprising:
 - a) collecting sperm from a male mammal;
 - b) staining said sperm with a fluorescent dye capable of selectively staining DNA in living cells;
 - c) diluting said sperm with a viability-supporting sheath fluid;
 - d) passing said sheath fluid containing said sperm through detecting means for said stained DNA and a cell sorting means;
 - e) selecting by said cell sorting means said sperm which will produce the desired gender of offspring;
 - f) collecting said selected sperm in a viability-supporting collecting fluid;
 - g) inseminating a female mammal of the same species as said male mammal with said sorted sperm in said collecting fluid.

2. The method of Claim 1 wherein said mammal is a rabbit.

3. The method of Claim 1 wherein said mammal is a swine.

4. The method of Claim 1 wherein said dye is bisbenzimidazole H 33342 fluorochrome.

5. The method of Claim 1 wherein said sheath fluid is phosphate buffered saline solution containing 0.1% bovine serum albumin.

6. The method of Claim 1 wherein said collecting fluid is modified test egg yolk extender.

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